# Alaska

## Science and Engineering Profile

| Characteristic | State | U.S. | Rank | Characteristic | State | U.S. | Rank |
|---|---|---|---|---|---|---|---|
| Doctoral scientists, 1999[1] | 1,240 | 518,670 | 49 | Total R&D performance, 1998 (millions)[2] | $133 | $214,668 | 48 |
| Doctoral engineers, 1999[1] | 90 | 107,100 | 50 | Industry R&D, 1998 (millions)[2] | $9 | $163,480 | 49 |
| S&E doctorates awarded, 1999[1] | 23 | 25,953 | 52 | Academic R&D, 1998 (millions) | $76 | $25,342 | 43 |
| of which, in life sciences | 39% | 25% | | of which, in environmental sciences | 45% | 6% | |
| in environmental sciences | 26% | 3% | | in life sciences | 26% | 57% | |
| in physical sciences | 17% | 14% | | in physical sciences | 19% | 9% | |
| S&E postdoctorates, 1998[1] | | | | Public higher education current-fund | | | |
| in doctorate-granting institutions | 14 | 39,494 | 49 | expenditures, 1997 (millions) | $345 | $125,236 | 49 |
| S&E graduate students, 1998[1] | | | | Number of SBIR awards, 1990-98 | 18 | 35,413 | 50 |
| in doctorate-granting institutions | 503 | 422,834 | 52 | Patents issued to state residents, 1999 | 53 | 83,901 | 50 |
| Population, 1999 (thousands) | 620 | 276,580 | 49 | Gross state product, 1998 (billions) | $24 | $8,800 | 47 |
| Civilian labor force, 1999 (thousands) | 315 | 140,536 | 50 | of which, agriculture | 2% | 1% | |
| | | | | manufacturing, mining, construction | 24% | 22% | |
| Personal income per capita, 1999 | $28,577 | $28,542 | 18 | transportation, communication, utilities | 18% | 9% | |
| | | | | wholesale and retail trade | 10% | 16% | |
| Federal spending | | | | finance, insurance, real estate | 12% | 19% | |
| Total expenditures, 1999 (millions) | $5,279 | $1,508,933 | 47 | services | 13% | 21% | |
| R&D obligations, 1998 (millions) | $107 | $70,445 | 42 | government | 21% | 12% | |

NOTE: Rankings and totals are based on data for the 50 States, District of Columbia, and Puerto Rico. Reliability of the estimates of industry R&D and of doctoral scientists and engineers varies by State, because the sample allocation was not based on geography. The rankings do not take into account the margin of error of estimates from sample surveys.

[1]Data on graduate students, doctoral scientists and engineers, and postdoctorates include all graduate degree (except M.D.) candidates and recipients in S&E fields, including health fields. Data on S&E doctorates awarded do not include health fields.

[2]The "total R&D performance" data and the "industry R&D" data for Alaska exclude funds from Federal government sources to the industry sector.

## Federal Obligations for Research and Development by Agency and Performer: Fiscal Year 1998

| | Performer | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Agency | Total | Federal Intramural | All FFRDCs | Industrial firms | Universities & colleges | Other nonprofits | State & local government | State rank, total |
| | [In thousands of dollars] | | | | | | | |
| Total, all agencies | 106,939 | 44,010 | 0 | 17,637 | 29,598 | 3,707 | 11,987 | 42 |
| Department of Agriculture | 7,574 | 5,159 | 0 | 0 | 2,415 | 0 | 0 | 41 |
| Department of Commerce | 24,261 | 19,743 | 0 | 0 | 4,472 | 0 | 46 | 8 |
| Department of Defense | 27,262 | 1,728 | 0 | 14,757 | 777 | 0 | 10,000 | 38 |
| Department of Energy | 50 | 0 | 0 | 0 | 50 | 0 | 0 | 50 |
| Dept. of Health & Human Services | 2,109 | 285 | 0 | 119 | 1,424 | 0 | 281 | 51 |
| Department of the Interior | 22,129 | 16,756 | 0 | 2,230 | 2,748 | 31 | 364 | 6 |
| Department of Transportation | 1,296 | 0 | 0 | 0 | 0 | 0 | 1,296 | 42 |
| Environmental Protection Agency | 290 | 0 | 0 | 70 | 220 | 0 | 0 | 46 |
| National Aeronautics and Space Admin | 12,250 | 339 | 0 | 85 | 9,326 | 2,500 | 0 | 32 |
| National Science Foundation | 9,718 | 0 | 0 | 376 | 8,166 | 1,176 | 0 | 40 |
| State rank, total | 42 | 33 | na | 42 | 45 | 36 | 3 | na |

NOTE: Federal R&D obligations are as reported by funding agencies. Ranks and totals are based on data for the 50 States, District of Columbia, and Puerto Rico.

KEY: FFRDC = federally funded research and development center; SBIR = small business innovation research; na = not applicable.

SOURCES: Prepared by the National Science Foundation/Division of Science Resources Studies. Data compiled from numerous sources -- see the section, "Data Sources for Science and Engineering (S&E) State Profiles".